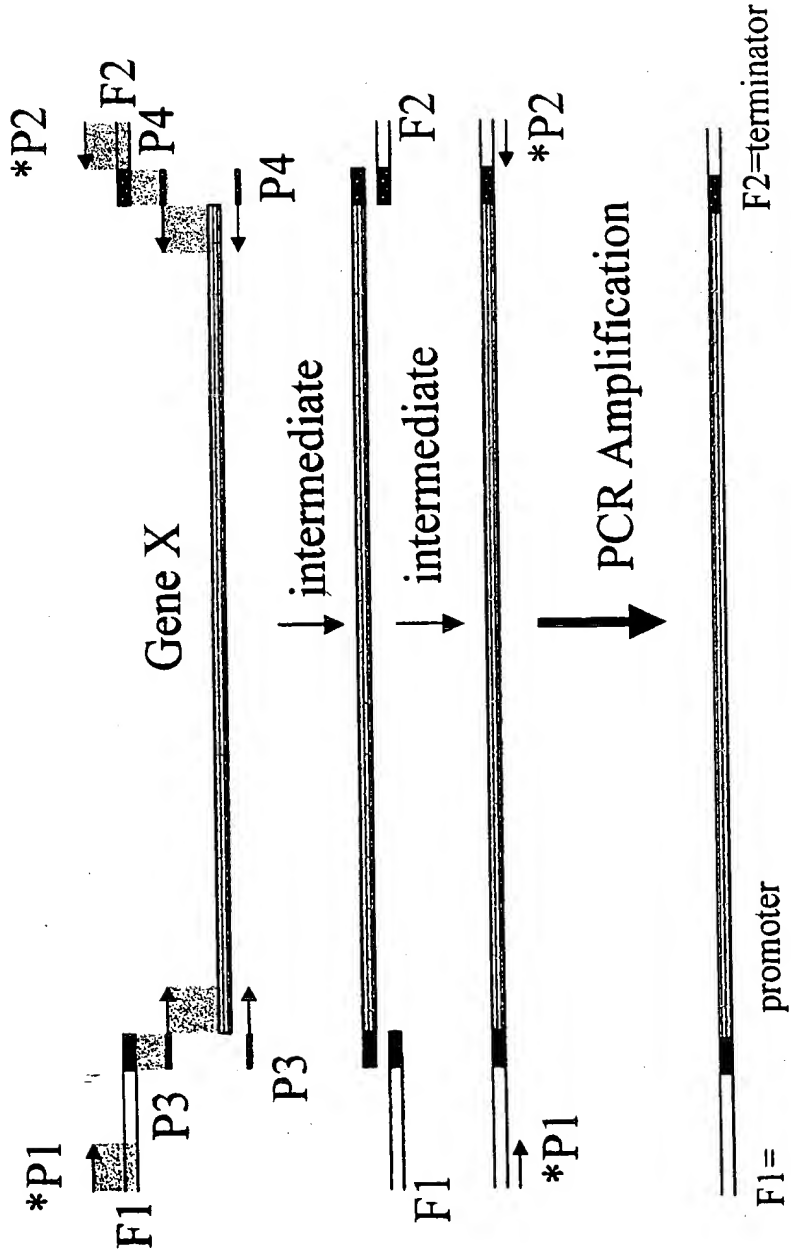
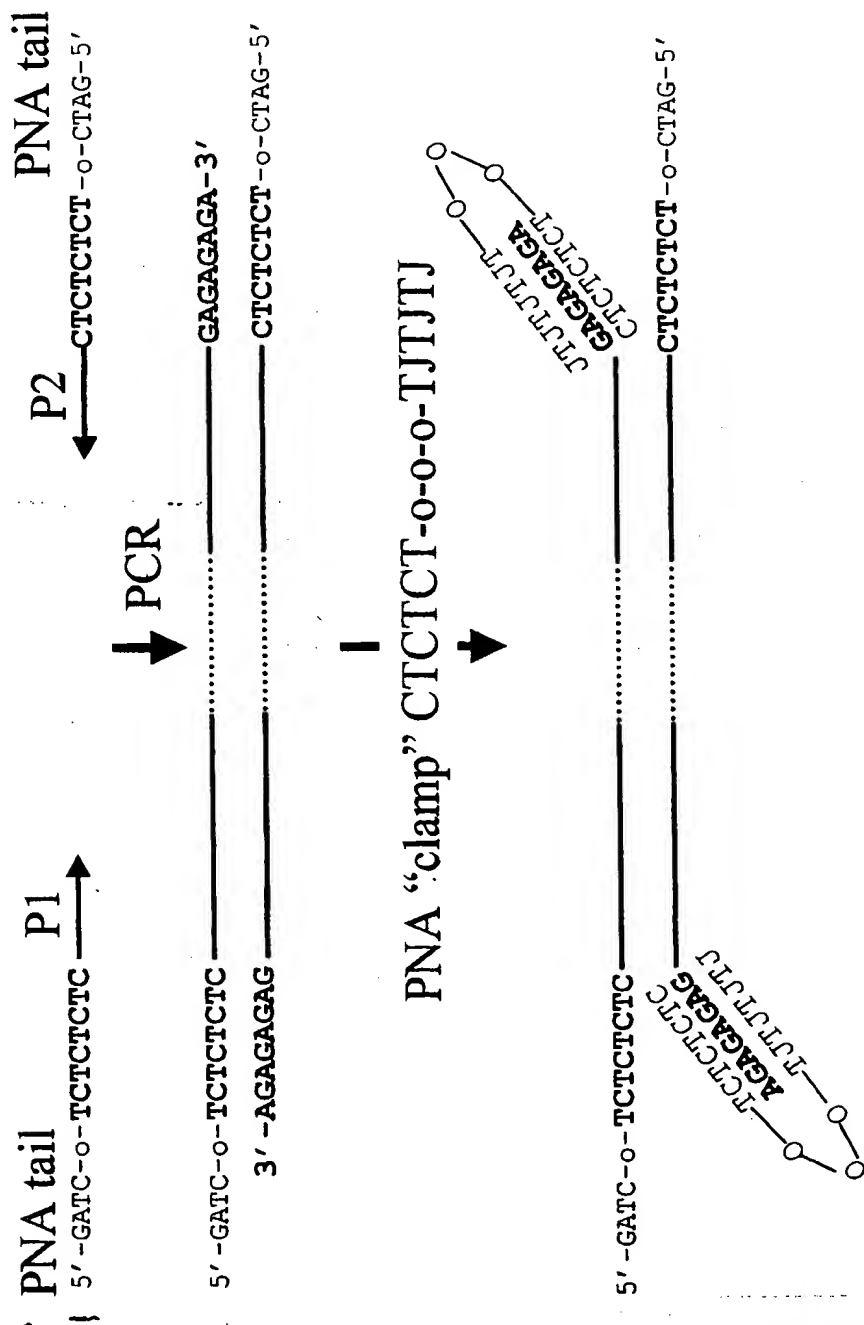


FIG. 1



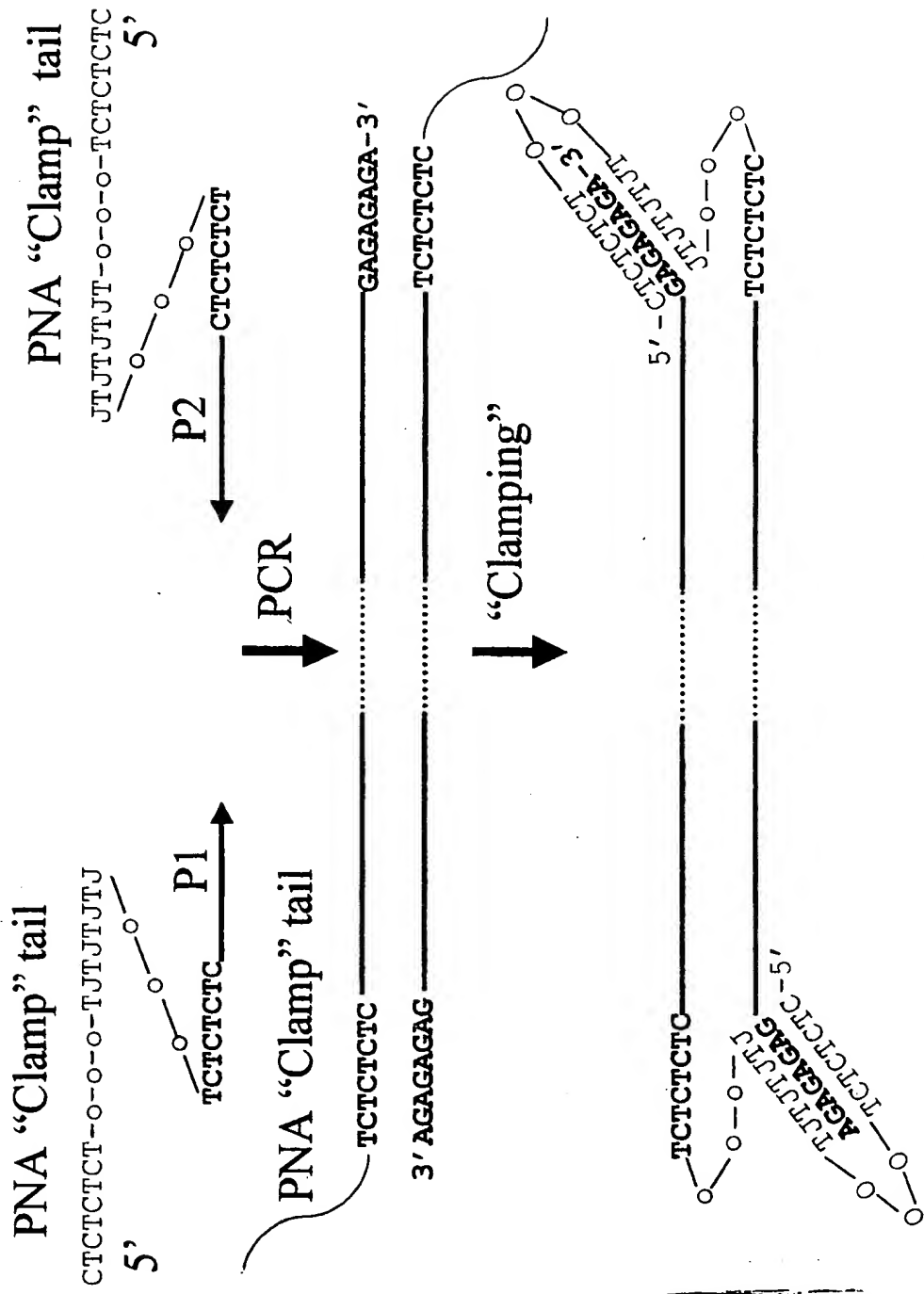
* in excess amount

FIG. 4a-3



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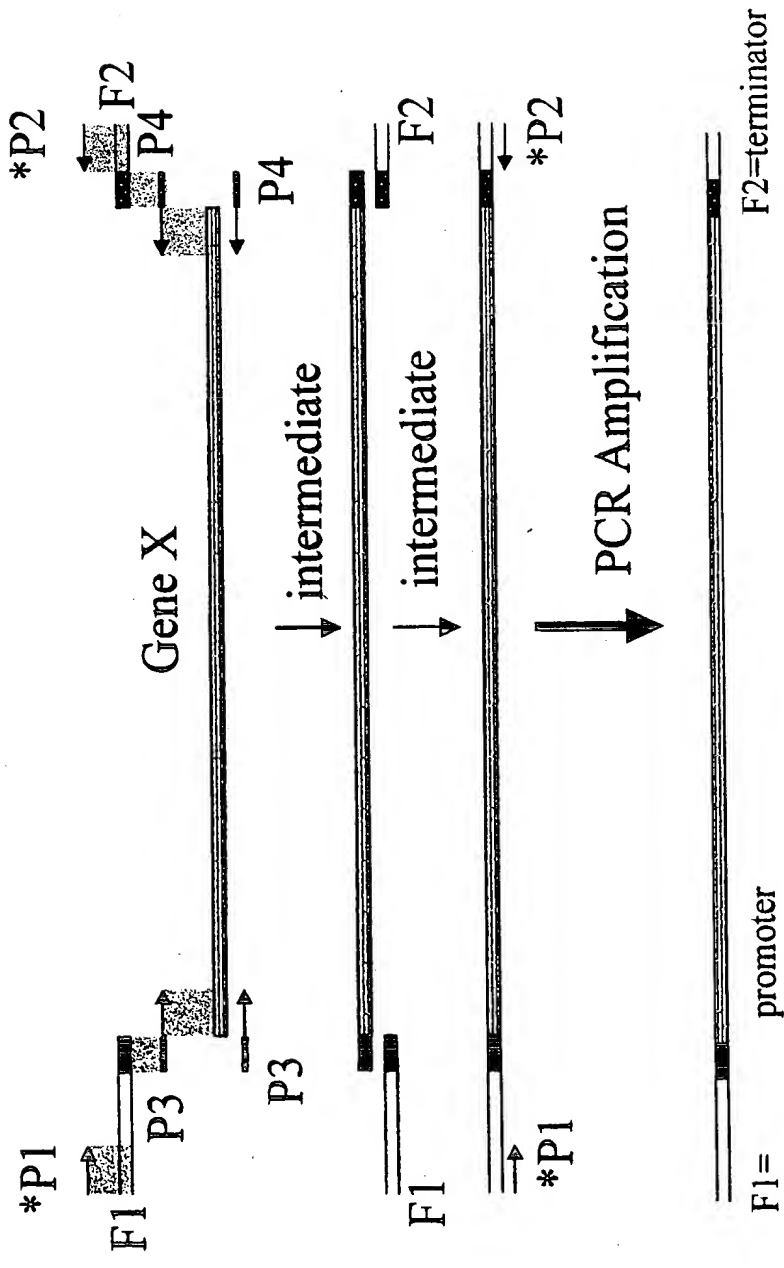
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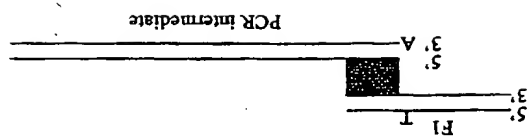
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FIG. 1




* in excess amount



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$$\begin{array}{c}
 \text{PNA tail} \\
 \text{P1} \quad \xrightarrow{5' \text{ -GATC-O-TCTCTCTC}} \\
 \text{P2} \quad \xleftarrow{\text{CTCTCTCT -O-CTAG-5'}} \text{PNA tail}
 \end{array}$$

PNA tail **P1**
5'-GATC-O-TCTCTCTC-

p2 \longleftrightarrow CTCTCTCT'-o'-CTAG-5' PNA tail

PCR

5' -GATC-o-TCTCTCTC-----GAGAGAGA-3'
3' -AGAGAGAG-----CTCTCTCT-o-CTAG-5'

3' -AGAGAGAG-----CTCTCTCT-0-CTAG-5'

□
PNA “clamp” CTCCTCT-o-o-o-TTJTJT

5'-GATC-o-TCTCTCTC

CTCTCTCT-o-CTAG-5'

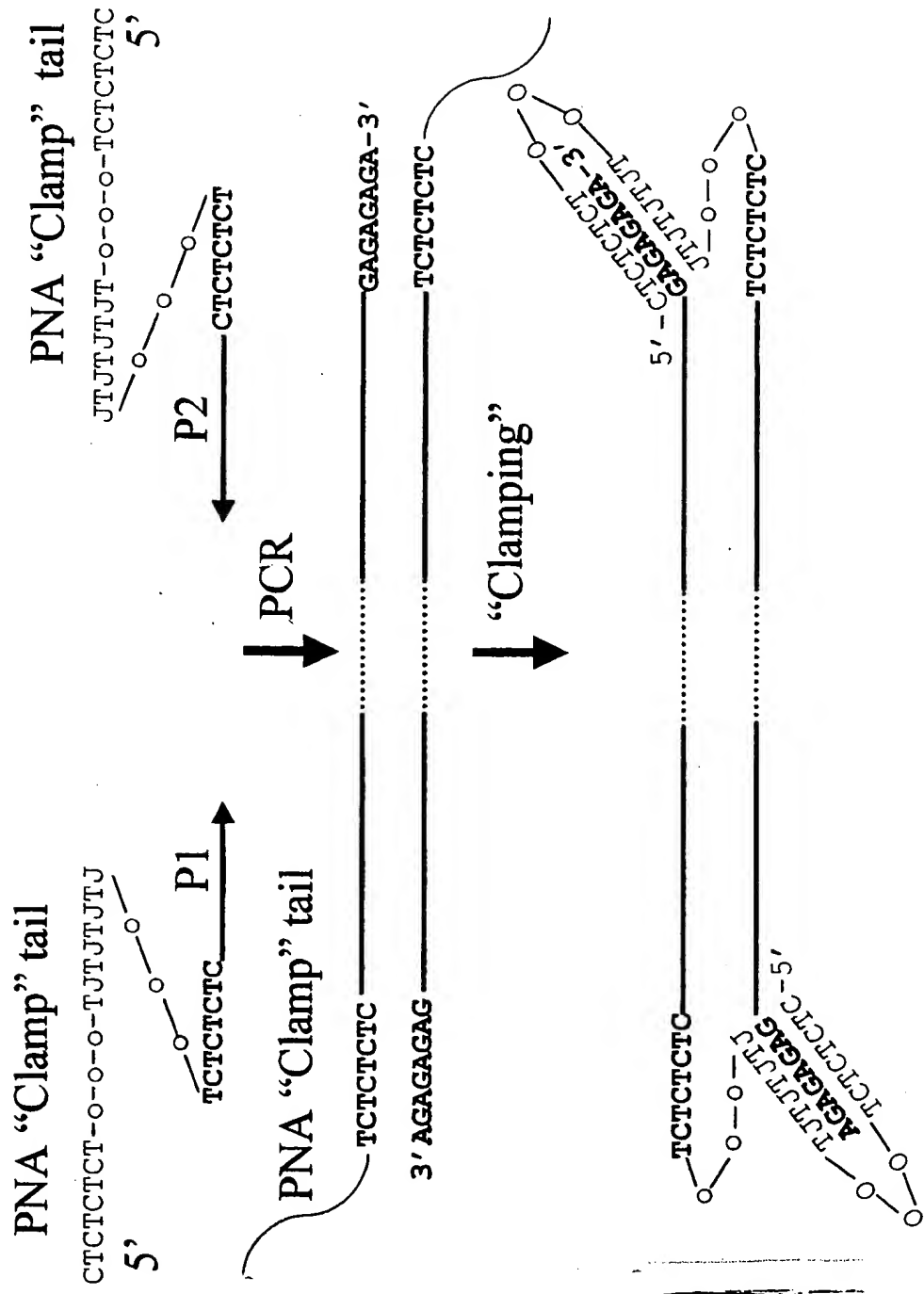
TCTCTCTC

TCTCTCTC

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[illegible]

FIG. 1



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